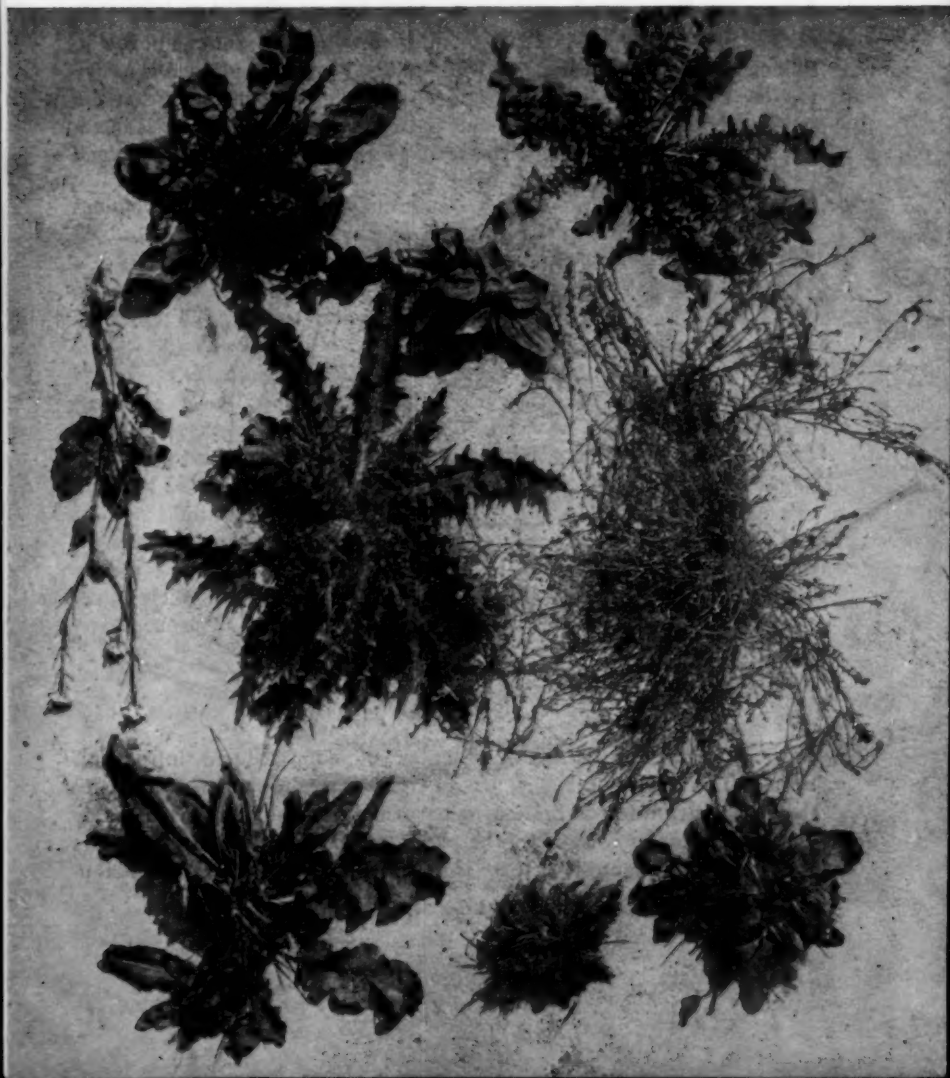


List of WEEDS *of New York*

W. C. MUENSCHER and G. J. SCHUMACHER

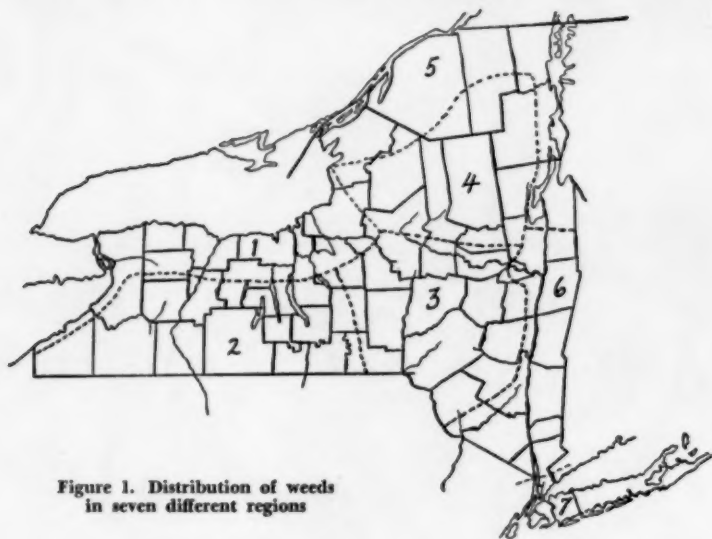


List of Weeds of New York

W. C. MUENSCHER AND G. J. SCHUMACHER

THIS bulletin contains a list of the common weeds that grow in New York. It includes their scientific and common names, the duration of their life, and a general statement of their distribution and prevalence within the State and whether they are native or introduced.¹

The duration of each kind of weed is indicated by letters as follows: A., annual; W.A., winter annual; B., biennial; P., perennial. A weed is understood to be introduced from other countries or States unless the statement following it concludes with "native," indicating that it is native to New York State. The minus sign (—) after "native" indicates that the species in question is native to some parts of New York and also is introduced into the State from elsewhere. The frequency of occurrence of each



weed is indicated in decreasing order, as common, frequent, infrequent, or rare. The number 1, 2, 3, 4, 5, 6, or 7 following the statement indicates that the distribution is limited to particular regions of the State. The approximate areas covered by the regions represented by these numbers are indicated in figure 1. If there is no number after a weed, its distribu-

¹The nomenclature follows that of *Grays Manual*, edition 8, 1950.

tion in the State is general or is not known to be limited to any particular region. The numbers 1 to 413 *preceding* the names are those appearing on the mounted specimens of New York weeds prepared by the Department of Botany of the New York State College of Agriculture. A set is on file in the Department of Botany in room 202 of the Plant Science Building. Permission to examine specimens of particular weeds in these collections may be obtained by applying at the office of the Department of Botany, New York State College of Agriculture, Ithaca, New York.

Of the 413 weeds in the following list, 123 (approximately 30 per cent) are native to New York, 282 (68 per cent) have been introduced, and 8 (2 per cent) are native to some part of New York but have been introduced into many parts of the State where they occur as weeds. The duration of these weeds under New York conditions is as follows: annual, 135 species (33 per cent); annual or winter annual, 34 (8 per cent); annual or biennial, 19 (4 per cent); biennial, 30 (7 per cent); biennial or perennial, 6 (1.5 per cent); perennial, 182 (44 per cent); total, 406 (98 per cent). The remaining 7 weeds are classified as: winter annual, 2; winter annual or biennial, 3; annual or perennial, 1; annual, biennial, or perennial, 1.

The weeds of New York are represented by 53 different families. The following 10 families contain the largest numbers of species of weeds in the State; Compositae (Composite family), 77 species; Gramineae (Grass family), 39; Cruciferae (Mustard family), 33; Caryophyllaceae (Pink family), 19; Leguminosae (Pulse family), 18; Labiatae (Mint family), 17; Rosaceae (Rose family), 17; Polygonaceae (Buckwheat family), 16; Chenopodiaceae (Pigweed family), 16; Scrophulariaceae (Figwort family), 15.

The genera represented in New York by five or more species of weeds include: *Chenopodium* (Pigweed), 11 species; *Polygonum* (Smartweed) 10 species; *Euphorbia* (Spurge), 9 species; *Veronica* (Speedwell), 8 species; *Plantago* (Plantain) and *Potentilla* (Cinquefoil) and *Rumex* (Dock), 6 species each; *Amaranthus* (Amaranth), *Brassica* (Mustard), *Bromus* (Brome-grass), *Cuscuta* (Dodder), *Erigeron* (Fleabane), *Galium* (Bedstraw), *Ranunculus* (Buttercup), and *Silene*, 5 species each.

The Weeds

Equisetaceae (Horsetail Family)

1. *Equisetum arvense*, Field horsetail. P. Common; native.
2. *Equisetum hyemale*, Scouring rush. P. Frequent; native.
3. *Equisetum palustre*, Horsetail. P. Rare; native.
4. *Equisetum sylvaticum*, Wood horsetail. P. Frequent; native.

Osmundaceae (Flowering-fern Family)

5. *Osmunda cinnamomea*, Cinnamon fern. P. Common; native.

Polypodiaceae (Fern Family)

6. *Dennstaedtia punctilobula*, Hay-scented fern. P. Common, 3, 6; native.
7. *Onoclea sensibilis*, Sensitive fern. P. Common; native.
8. *Pteridium aquilinum*, Brake fern. P. Frequent, 3, 4; native.

Gramineae (Grass Family)

9. *Agropyron repens*, Quack grass. P. Common.
10. *Andropogon gerardi*, Beard grass. P. Frequent, 4, 6, 7; native.
11. *Andropogon scoparius*, Broom beard-grass. P. Frequent, 2, 3, 6, 7; native.
12. *Anthoxanthum odoratum*, Sweet vernal grass. P. Frequent.
13. *Aira caryophyllaea*, Silver hair-grass. A. Frequent.
14. *Avena fatua*, Wild oats. A. Infrequent, 1, 2.
15. *Bromus commutatus*, Smooth brome-grass. A. or B. Frequent.
16. *Bromus mollis*, Soft chess. A. Infrequent, 6, 7.
17. *Bromus secalinus*, Chess, or cheat. W.A. Common, 1, 2.
18. *Bromus sterilis*, Barren brome-grass. A. or W.A. Frequent.
19. *Bromus tectorum*, Downy brome-grass. A. or W.A. Locally common.
20. *Cenchrus pauciflorus*, Sandbur. A. Infrequent, 1, 6, 7.
21. *Cynodon dactylon*, Bermuda grass. P. or A. Rare, 7.
22. *Dactyloctenium aegyptium*, Egyptian grass. A. Frequent, 6, 7.
23. *Danthonia spicata*, Poverty grass. P. Common, 2, 3, 4; native.
24. *Digitaria ischaemum*, Small crab-grass. A. Common.
25. *Digitaria sanguinalis*, Large crab-grass. A. Locally common.
26. *Echinochloa crus-galli*, Barnyard grass. A. Common.
27. *Echinochloa pungens*, Barnyard grass. A. Locally common on moist land; native.
28. *Eleusine indica*, Goose grass. A. Common, 6, 7.
29. *Eragrostis frankii*, Love grass. A. Frequent; native.
30. *Eragrostis megastachya*, Stink grass. A. Common.
31. *Eragrostis pilosa*, Tufted love-grass. A. Infrequent; native.
32. *Eragrostis poaeoides*, Low love-grass. A. Frequent.
33. *Holcus lanatus*, Velvet grass. P. Frequent, 6, 7.
34. *Hordeum jubatum*, Squirrel-tail grass. B. or P. Locally common, 1, 5.
35. *Muhlenbergia mexicana*, Mexican drop-seed. P. Common; native.
36. *Muhlenbergia schreberi*, Drop seed. P. Frequent; native.
37. *Panicum capillare*, Old-witch grass. A. Common; native.
38. *Panicum dichotomiflorum*, Spreading witch-grass. A. Frequent, 6, 7; native.
39. *Panicum gattingeri*, Gattinger's witch-grass. A. Frequent.
40. *Panicum virgatum*, Switch grass. P. Frequent, 6, 7; native.
41. *Paspalum ciliatifolium*, Paspalum. P. Infrequent, 6, 7; rare, 1.
42. *Phalaris arundinacea*, Reed canary grass. P. Frequent; native.
43. *Phalaris canariensis*, Canary grass. A. Infrequent.
44. *Poa annua*, Annual spear-grass. A. Common.
45. *Setaria glauca*, Yellow foxtail. A. Common.
46. *Setaria verticillata*, Bristly foxtail. A. Infrequent.
47. *Setaria viridis*, Green foxtail. A. Common.

Cyperaceae (Sedge Family)

48. *Cyperus diandrus*, Sedge. A. Frequent, 1, 2, 5; native.
49. *Cyperus esculentus*, Yellow nut-grass. P. Frequent, 1, 3, 6; native.
50. *Cyperus strigosus*, Sedge. P. Frequent; native.
51. *Scirpus atrovirens*, Meadow rush. P. Common; native.

Commelinaceae (Spiderwort Family)

52. *Commelina communis*, Dayflower. A. Infrequent, 6, 7.

Juncaceae (Rush Family)

53. *Juncus bufonius*, Toad rush. A. Common; native.
54. *Juncus effusus*, Bog rush. P. Common; native.
55. *Juncus tenuis*, Path rush. P. Common; native.

Liliaceae (Lily Family)

- 56. *Allium canadense*, Wild onion. P. Frequent, 1, 2, 3, 6; native.
- 57. *Allium tricoccum*, Wild leek. P. Frequent, 1, 2, 3; native.
- 58. *Allium vineale*, Wild garlic. P. Frequent, 6, 7; infrequent, 1, 7.
- 59. *Hemerocallis fulva*, Day lily. P. Locally common.
- 60. *Ornithogalum umbellatum*, Star-of-Bethlehem. P. Infrequent, 6, 7.
- 61. *Veratrum viride*, American hellebore. P. Frequent, 2, 3, 4, 6; native.

Myricaceae (Sweet-gale Family)

- 62. *Comptonia peregrina*, Sweet fern. P. Native.

Urticaceae (Nettle Family)

- 63. *Cannabis sativa*, Hemp. A. Rare, 6, 7.
- 64. *Urtica dioica*, Stinging nettle. P. Frequent.
- 65. *Urtica gracilis*, Stinging nettle. P. Infrequent; native.

Polygonaceae (Buckwheat Family)

- 66. *Polygonum aviculare*, Knotweed. A. Common; native—.
- 67. *Polygonum convolvulus*, Black bindweed. A. Common.
- 68. *Polygonum cuspidatum*, Japanese knotweed. P. Common.
- 69. *Polygonum erectum*, Erect knotweed. A. Infrequent; native.
- 70. *Polygonum hydropiper*, Smartweed. A. Locally common; native.
- 71. *Polygonum hydropiperoides*, Mild water-pepper. P. Infrequent; native.
- 72. *Polygonum lapathifolium*, Pale smartweed. A. Common.
- 73. *Polygonum pennsylvanicum*, Pennsylvania smartweed. A. Common, except 4; native.
- 74. *Polygonum persicaria*, Lady's-thumb. A. Common.
- 75. *Polygonum scandens*, Hedge bindweed. A. Common, 1, 2, 3, 5, 6.
- 76. *Rumex acetosa*, Sour dock. P. Locally abundant, 2, 3, 6.
- 77. *Rumex acetosella*, Sheep sorrel. P. Common.
- 78. *Rumex crispus*, Curly dock. P. Common.
- 79. *Rumex mexicanus*, Pale dock. P. Frequent, 2, 3, 6; native.
- 80. *Rumex obtusifolius*, Broad-leaved dock. P. Frequent.
- 81. *Rumex patientia*, Patience dock. P. Infrequent.

Chenopodiaceae (Pigweed Family)

- 82. *Atriplex patula*, Orache. A. Frequent, 6, 7; native.
- 83. *Atriplex patula* var. *hastata*, Halberd-leaved orache. A. Frequent, 1, 3, 5, 6, 7; native—.
- 84. *Chenopodium album*, Lamb's quarters. A. Common.
- 85. *Chenopodium ambrosioides*, Wormseed. A. Frequent, 6, 7.
- 86. *Chenopodium bonus-henricus*, Good-King-Henry. P. Rare.
- 87. *Chenopodium botrys*, Jerusalem oak. A. Infrequent, 1, 5, 6.
- 88. *Chenopodium capitatum*, Strawberry blite. A. Infrequent, 2, 3, 4, 5; native.
- 89. *Chenopodium glaucum*, Oak-leaved goosefoot. A. Infrequent, 1.
- 90. *Chenopodium hybridum*, Maple-leaved goosefoot. A. Frequent.
- 91. *Chenopodium murale*, Nettle-leaved goosefoot. A. Infrequent, 6, 7.
- 92. *Chenopodium paganum*, Pigweed. A. Common.
- 93. *Chenopodium polyspermum*, Pigweed. A. Rare, 1.
- 94. *Chenopodium urticum*, Goosefoot. A. Infrequent.
- 95. *Cycloloma atriplicifolium*, Winged pigweed. A. Locally common, 1, 6.
- 96. *Kochia scoparia*, Summer-cypress. A. Infrequent.
- 97. *Salsola kali* var. *tenuifolia*, Russian thistle. A. Infrequent.

Amaranthaceae (Amaranth Family)

- 98. *Amaranthus albus*, Tumbleweed. A. Frequent, 1, 3, 6.
- 99. *Amaranthus graecizans*, Prostrate pigweed. A. Infrequent.
- 100. *Amaranthus hybridus*, Green amaranth. A. Common.
- 101. *Amaranthus retroflexus*, Amaranth pigweed. A. Common.
- 102. *Amaranthus spinosus*, Spiny amaranth. A. Infrequent, 6, 7.

Phytolaccaceae (Pokeweed Family)

103. *Phytolacca americana*, Pokeweed. P. Frequent, native.

Aizoaceae (Carpetweed Family)

104. *Mollugo verticillata*, Carpetweed. A. Locally common.

Caryophyllaceae (Pink Family)

105. *Agrostemma githago*, Corn cockle. W.A. Frequent, 1, 2, 5.
 106. *Arenaria serpyllifolia*, Thyme-leaved sandwort. A. Common.
 107. *Cerastium arvense*, Field chickweed. P. Frequent; native.—
 108. *Cerastium vulgatum*, Mouse-ear chickweed. P. Common.
 109. *Dianthus armeria*, Deptford pink. A. or W.A. Frequent.
 110. *Lychnis alba*, White campion. B. or P. Common.
 111. *Lychnis dioica*, Red campion. B. Rare.
 112. *Lychnis flos-cuculi*, Ragged robin. P. Infrequent, 6, 7.
 113. *Saponaria officinalis*, Bouncing Bet. P. Locally common.
 114. *Saponaria vaccaria*, Cow cockle. A. Infrequent, 1, 2.
 115. *Scleranthus annuus*, Knawel. A. Locally common, 2, 6, 7.
 116. *Silene antirrhina*, Sleepy catchfly. A. Infrequent.
 117. *Silene cucubalus*, Bladder campion. P. Frequent.
 118. *Silene cserei*. B. Infrequent.
 119. *Silene dichotoma*, Forked catchfly. A. or W.A. Infrequent.
 120. *Silene noctiflora*, Night-flowering catchfly. A. or W.A. Common.
 121. *Spergula arvensis*, Spurry. A. Frequent, 1, 2, 5.
 122. *Stellaria graminea*, Grass-leaved stitchwort. P. Common.
 123. *Stellaria media*, Chickweed. A. or W.A. Common.

Portulacaceae (Purslane Family)

124. *Portulaca oleracea*, Purslane. A. Common.

Ranunculaceae (Crowfoot Family)

125. *Ranunculus abortivus*, Small-flowered buttercup. B. Common; native.
 126. *Ranunculus acris*, Tall field buttercup. P. Common.
 127. *Ranunculus bulbosus*, Bulbous crowfoot. P. Frequent, 3, 6.
 128. *Ranunculus repens*, Creeping buttercup. P. Infrequent.
 129. *Ranunculus sceleratus*, Cursed crowfoot. A. or W.A. Infrequent; native.

Berberidaceae (Barberry Family)

130. *Berberis vulgaris*, Barberry. P. Frequent, 2, 3, 6.

Papaveraceae (Poppy Family)

131. *Chelidonium majus*, Celandine. B. Frequent.
 132. *Papaver rhoeas*, Corn poppy. A. Infrequent, 6, 7.

Cruciferae (Mustard Family)

133. *Barbarea verna*, Scurvy grass. P. or B. Frequent.
 134. *Barbarea vulgaris*, Winter cress. P. or B. Common.
 135. *Berteroa incana*, Hoary alyssum. B. or P. Frequent, 5, 6.
 136. *Brassica hirta*, White mustard. A. Infrequent.
 137. *Brassica juncea*, Indian mustard. A. or W.A. Infrequent.
 138. *Brassica kaber* var. *pinnatifida*, Wild mustard. A. Common.
 139. *Brassica nigra*, Black mustard. A. or W.A. Frequent.
 140. *Brassica rapa*, Rutabaga. W.A. or B. Infrequent.
 141. *Camelina microcarpa*, Small-seeded false flax. A. Frequent, 1, 2.
 142. *Capsella bursa-pastoris*, Shepherd's-purse. A. or W.A. Common.
 143. *Cardaria draba*, Hoary cress. P. Rare, 1, 2, 5, 6.
 144. *Conringia orientalis*, Hare's-ear mustard. A. Infrequent.
 145. *Descurainia sophia*, Flixweed. A. or B. Rare.
 146. *Diplotaxis tenuifolia*, Large sand-rocket. P. Infrequent, 1, 7.

147. *Draba verna*, Whitlow grass. A. or B. Frequent, 2, 3, 6.
148. *Eruca sativa*, Garden rocket. A. or W.A. Rare.
149. *Erucastrum gallicum*, Dog mustard. A. or W.A. Infrequent, 1, 2, 5, 6.
150. *Erysimum cheiranthoides*, Wormseed mustard. A. or W.A. Frequent; native.
151. *Erysimum repandum*, Treacle mustard. A. or W.A. Infrequent.
152. *Lepidium campestre*, Field peppergrass. B. or W.A. Common.
153. *Lepidium densiflorum*, Peppergrass. A. or W.A. Frequent.
154. *Lepidium perfoliatum*, Claspingleaved peppergrass. A. Rare.
155. *Lepidium virginicum*, Peppergrass. A. or B. Common; native.
156. *Neslia paniculata*, Ball mustard. A. or W.A. Infrequent, 1, 2.
157. *Raphanus raphanistrum*, Wild radish. A. or W.A. Common, 3, 4, 5, 6, 7.
158. *Raphanus sativus*, Radish. A. Locally common, 1.
159. *Rorippa austriaca*, Austrian field-cress. P. Rare, Orange County.
160. *Rorippa islandica*, Marsh cress. A., B., or P. Frequent; native.
161. *Rorippa sylvestris*, Yellow cress. P. Infrequent.
162. *Sisymbrium altissimum*, Tumble mustard. A. or W.A. Common.
163. *Sisymbrium officinale*, Hedge mustard. A. or W.A. Common.
164. *Thlaspi arvense*, Fanweed. A. or W.A. Infrequent.
165. *Thlaspi perfoliatum*, Penny cress. A. or W.A. Rare, Geneva.

Resedaceae (Mignonette Family)

166. *Reseda lutea*, Yellow mignonette. P. Infrequent, 3, 4, 6.

Crassulaceae (Orpine Family)

167. *Sedum purpureum*, Live-for-ever. P. Frequent.

Rosaceae (Rose Family)

168. *Agrimonia gryposepala*, Agrimony. P. Common; native.
169. *Crataegus* spp., Thorn apple. P. Locally common, mostly 1, 2, 3; native.
170. *Duchesnea indica*, Indian strawberry. P. Rare.
171. *Geum aleppicum* var. *strictum*, Yellow avens. P. Frequent; native.
172. *Potentilla argentea*, Silvery cinquefoil. P. Locally common; native.
173. *Potentilla canadensis*, Cinquefoil. P. Common; native.
174. *Potentilla fruticosa*, Shrubby cinquefoil. P. Locally common, 1, 5; native.
175. *Potentilla intermedia*, Downy cinquefoil. P. Rare.
176. *Potentilla norvegica*, Rough cinquefoil. A. or B. Frequent.
177. *Potentilla recta*, Sulfur cinquefoil. P. Locally common.
178. *Prunus virginiana*, Chokecherry. P. Common; native.
179. *Rosa eglanteria*, Sweetbrier. P. Frequent.
180. *Rubus flagellaris*, Dewberry. P. Common; native.
181. *Sanguisorba minor*, Garden burnet. P. Rare.
182. *Spiraea alba*, Meadowsweet. P. Frequent; native.
183. *Spiraea latifolia*, Meadowsweet. P. Common, 4, 5; native.
184. *Spiraea tomentosa*, Steeplebush. P. Frequent, 3, 4, 5; native.

Leguminosae (Pulse Family)

185. *Cassia fasciculata*, Partridge pea. A. Infrequent, 6, 7; native.
186. *Cassia nititans*, Partridge pea. A. Infrequent, 6, 7; native.
187. *Crotalaria sagittalis*, Rattlebox. A. Infrequent, 6, 7; native.
188. *Desmodium canadense*, Tick trefoil. P. Frequent; native.
189. *Genista tinctoria*, Dyer's-broom. P. Rare, 6.
190. *Lathyrus palustris*, Wild pea. P. Infrequent, 1, 5.
191. *Lathyrus pratensis*, Meadow pea. P. Rare.
192. *Lespedeza violacea*, Bush clover. P. Frequent, mostly 2, 3; native.
193. *Medicago lupulina*, Black medic. A. or W.A. Common.
194. *Melilotus alba*, White sweet clover. B. Frequent.
195. *Melilotus officinalis*, Yellow sweet clover. A. or B. Frequent; common.
196. *Trifolium agrarium*, Yellow clover. A. Common, 1, 2, 3.
197. *Trifolium arvense*, Rabbit-foot clover. A. Locally common, 1, 5, 6.
198. *Trifolium dubium*, Little hop-clover. A. Infrequent.
199. *Trifolium procumbens*, Low hop-clover. A. Infrequent.

200. *Vicia angustifolia*, Narrow-leaved vetch. A. or W.A. Infrequent.
201. *Vicia cracca*, Wild vetch. P. Very local, mostly 5, 6.
202. *Vicia tetrasperma*, Slender vetch. A. Infrequent, mostly 1.

Oxalidaceae (Wood-sorrel Family)

203. *Oxalis europaea*, Yellow wood-sorrel. P. Common; native.
204. *Oxalis florida*, Yellow wood-sorrel. P. Infrequent; native.
205. *Oxalis stricta*, Upright yellow wood-sorrel. P. Frequent; native.

Geraniaceae (Geranium Family)

206. *Erodium cicutarium*, Stork's-bill. A. or B. Infrequent.
207. *Geranium columbinum*, Long-stalked crane's-bill. A. or B. Infrequent.
208. *Geranium maculatum*, Wild crane's-bill. P. Common, except 4; native.
209. *Geranium molle*, Crane's-bill. B. Infrequent, 1, 2, 3.
210. *Geranium pusillum*, Small-flowered crane's-bill. B. Infrequent.

Euphorbiaceae (Spurge Family)

211. *Acalypha virginica*, Three-seeded mercury. A. Common; native.
212. *Euphorbia corollata*, Flowering spurge. P. Rare, 1, 2, 6; native—.
213. *Euphorbia cyparissias*, Cypress spurge. P. Locally frequent.
214. *Euphorbia esula*, Leafy spurge. P. Locally common, 6; infrequent, 1, 2, 3, 5.
215. *Euphorbia helioscopia*, Sun spurge. A. Infrequent, 1, 5.
216. *Euphorbia lucida*, Broad-leaved spurge. P. Rare, 2.
217. *Euphorbia maculata*, Purslane. A. Common.
218. *Euphorbia peplus*, Petty spurge. A. Infrequent.
219. *Euphorbia supina*, Milk purslane. A. Common.
220. *Euphorbia vermiculata*, Hairy spurge. A. Common; native.

Anacardiaceae (Cashew Family)

221. *Rhus radicans*, Poison ivy. P. Common; native.
222. *Rhus vernix*, Poison sumac. P. Locally common, except 4; native.

Malvaceae (Mallow Family)

223. *Abutilon theophrasti*, Velvet-leaf. A. Frequent, 1, 2, 5, 6.
224. *Hibiscus trionum*, Flower-of-an-hour. A. Infrequent, 1, 2, 5, 6.
225. *Malva moschata*, Musk mallow. P. Frequent.
226. *Malva neglecta*, Round-leaved mallow. A. or B. Common.
227. *Sida spinosa*, Prickly sida. A. Infrequent, 6, 7.

Hypericaceae (St. John's-wort Family)

228. *Hypericum perforatum*, St. John's-wort. P. Common.

Violaceae (Violet Family)

229. *Viola arvensis*, Wild pansy. A. Rare.

Lythraceae (Loosestrife Family)

230. *Cuphea petiolata*, Clammy loosestrife. A. Rare, 2, 3, 6; native.
231. *Lythrum salicaria*, Purple loosestrife. P. Frequent, 6.

Onagraceae (Evening-primrose Family)

232. *Epilobium angustifolium*, Fireweed. P. Common; native.
233. *Epilobium hirsutum*, Willow herb. A. Frequent.
234. *Gaura biennis*, Biennial gaura. B. Frequent; native—.
235. *Oenothera biennis*, Evening primrose. B. Common; native—.

Umbelliferae (Parsley Family)

236. *Aegopodium podagraria*, Goutweed. P. Common.
237. *Angelica atropurpurea*, Purple-stem angelica. B. Frequent; native.

238. *Carum carvi*, Caraway. P. Frequent, 2, 3, 6.
 239. *Cicuta maculata*, Water hemlock. P. Locally common; native.
 240. *Conium maculatum*, Poison hemlock. B. Infrequent.
 241. *Daucus carota*, Wild carrot. B. Common.
 242. *Hydrocotyle sibthorpioides*, Lawn pennywort. P. Rare, 7.
 243. *Pastinaca sativa*, Wild parsnip. B. Frequent.

Ericaceae (Heath Family)

244. *Kalmia angustifolia*, Sheep laurel. P. Locally common, 3, 4, 6, 7; native.
 245. *Kalmia latifolia*, Mountain laurel. P. Locally common, 2, 3; native.
 246. *Kalmia polifolia*, Swamp laurel. P. Infrequent, 4, 5; native.

Primulaceae (Primrose Family)

247. *Anagallis arvensis*, Scarlet pimpernel. A. Infrequent.
 248. *Lysimachia nummularia*, Moneywort. P. Common.

Apocynaceae (Dogbane Family)

249. *Apocynum androsaemifolium*, Spreading dogbane. P. Common; native.
 250. *Apocynum cannabinum*, Indian hemp. P. Common; native.

Asclepiadaceae (Milkweed Family)

251. *Asclepias syriaca*, Milkweed. P. Common; native.
 252. *Asclepias tuberosa*, Butterfly weed. P. Infrequent; native.
 253. *Cynanchum nigrum*, Black swallow-wort. P. Rare.
 254. *Cynanchum vincetoxicum*, White swallow-wort. P. Infrequent, 1, 3.

Convolvulaceae (Morning-glory Family)

255. *Convolvulus arvensis*, Bindweed. P. Locally common, 1; infrequent elsewhere.
 256. *Convolvulus sepium*, Wild morning-glory. P. Common; native.
 257. *Cuscuta coryli*, Hazel dodder. A. Rare; native.
 258. *Cuscuta epilinum*, Flax dodder. A. Rare, 1, 2.
 259. *Cuscuta epithymum*, Clover dodder. A. Infrequent.
 260. *Cuscuta gronovii*, Common dodder. A. Frequent; native.
 261. *Cuscuta pentagona*, Field dodder. A. Infrequent, 1, 2, 5.
 262. *Ipomoea coccinea*, Morning-glory. A. Rare, 6, 7.
 263. *Ipomoea hederacea*, Ivy-leaved morning-glory. A. Infrequent, 6, 7.
 264. *Ipomoea purpurea*, Morning-glory. A. Infrequent, 6, 7; rare elsewhere.

Boraginaceae (Borage Family)

265. *Cynoglossum officinale*, Hound's-tongue. B. Frequent.
 266. *Echium vulgare*, Blue thistle. B. Locally common, 5, 6.
 267. *Lappula echinata*, Stickseed. A. Infrequent.
 268. *Lithospermum arvense*, Gromwell. A. or W.A. Locally abundant, mostly 1, 2, 5, 6.
 269. *Lithospermum officinale*, Gromwell. P. Frequent, 1, 5, 6.
 270. *Symphytum officinale*, Comfrey. P. Rare.

Verbenaceae (Vervain Family)

271. *Verbena bracteata*, Bracted vervain. A. Rare, mostly 6, 7.
 272. *Verbena hastata*, Blue vervain. P. Common; native.
 273. *Verbena stricta*, Hoary vervain. P. Rare, 1, 2, 6.
 274. *Verbena urticaefolia*, White vervain. P. Common; native.

Labiatae (Mint Family)

275. *Dracocephalum parviflorum*, Dragonhead. A. or B. Infrequent, 1, 2, 5; native.
 276. *Galeopsis tetrahit*, Hemp nettle. A. Frequent, mostly 2, 3, 4.
 277. *Glechoma hederacea*, Ground ivy. P. Frequent.
 278. *Hedeoma pulegioides*, American pennyroyal. A. Common; native.

- 279. *Lamium amplexicaule*, Dead nettle. W.A. or A. Frequent, 1, 2, 3, 6.
- 280. *Lamium purpureum*, Red dead-nettle. W.A. or B. Infrequent.
- 281. *Leonurus cardiaca*, Motherwort. P. Common.
- 282. *Mentha arvensis*, Wild mint. P. Frequent; native.
- 283. *Mentha gentilis*, Creeping whorled mint. P. Infrequent.
- 284. *Mentha piperita*, Peppermint. P. Frequent.
- 285. *Mentha spicata*, Spearmint. P. Frequent.
- 286. *Nepeta cataria*, Catnip. P. Common.
- 287. *Origanum vulgare*, Wild marjoram. P. Locally abundant, 3, 4, 6.
- 288. *Prunella vulgaris*, Heal-all. P. Common.
- 289. *Satureja vulgaris*, Wild basil. P. Common.
- 290. *Thymus serpyllum*, Creeping thyme. P. Locally common, 3, 5, 6.
- 291. *Trichostema dichotomum*, Blue curls. A. Locally abundant, 3, 6, 7; native.

Solanaceae (Nightshade Family)

- 292. *Datura stramonium*, Jimson weed. A. Infrequent, 1, 2, 5, 6, 7.
- 293. *Physalis heterophylla*, Ground cherry. P. Infrequent; native.
- 294. *Physalis subglabrata*, Ground cherry. P. Infrequent; native.
- 295. *Solanum carolinense*, Horse nettle. P. Frequent, 1, 2, 3, 6, 7.
- 296. *Solanum dulcamara*, European bitter-sweet. P. Common.
- 297. *Solanum nigrum*, Black nightshade. A. Infrequent.
- 298. *Solanum rostratum*, Buffalo bur. A. Rare, 1, 2, 6, 7.

Scrophulariaceae (Figwort Family)

- 299. *Chaenorrhinum minus*, Small snapdragon. A. Infrequent.
- 300. *Kickxia elatine*, Toadflax. A. Rare.
- 301. *Linaria vulgaris*, Butter-and-eggs. P. Common.
- 302. *Pentstemon digitalis*, Beard-tongue. P. Frequent, 2, 3, 5, 6.
- 303. *Scrophularia marilandica*, Figwort. P. Frequent.
- 304. *Verbascum blattaria*, Moth mullein. B. Common.
- 305. *Verbascum thapsus*, Mullein. B. Common.
- 306. *Veronica arvensis*, Corn speedwell. A. or W.A. Frequent.
- 307. *Veronica chamaedrys*, Germander speedwell. P. Rare.
- 308. *Veronica filiformis*, Creeping speedwell. P. Common.
- 309. *Veronica officinalis*, Speedwell. P. Common; native.
- 310. *Veronica peregrina*, Purslane speedwell. A. or W.A. Common; native.
- 311. *Veronica persica*, Speedwell. A. or W.A. Infrequent.
- 312. *Veronica polita*, Field speedwell. A. or W.A. Infrequent.
- 313. *Veronica serpyllifolia*, Thyme-leaved speedwell. P. Common; native.

Plantaginaceae (Plantain Family)

- 314. *Plantago aristata*, Bracted plantain. A. or W.A. Infrequent, 1, 2, 6, 7.
- 315. *Plantago indica*, Whorled plantain. A. Infrequent.
- 316. *Plantago lanceolata*, Buckhorn or English plantain. P. Common.
- 317. *Plantago major*, Broad-leaved plantain. P. Common.
- 318. *Plantago media*, Hoary plantain. P. Infrequent.
- 319. *Plantago rugelii*, Rugel's plantain. P. Common; native.

Rubiaceae (Madder Family)

- 320. *Diodia teres*, Buttonweed. A. Frequent, 7; native.
- 321. *Galium aparine*, Cleavers. A. Common; native.
- 322. *Galium asprellum*, Rough bedstraw. P. Frequent; native.
- 323. *Galium boreale*, Northern bedstraw. P. Frequent; native.
- 324. *Galium mollugo*, Cleavers. P. Frequent, 2, 3, 6.
- 325. *Galium verum*, Yellow bedstraw. P. Frequent, 3, 6.
- 326. *Sherardia arvensis*, Blue field-madder. A. Infrequent.

Caprifoliaceae (Honeysuckle Family)

- 327. *Lonicera japonica*, Japanese honeysuckle. P. Frequent, 7.

Dipsacaceae (Teasel Family)

328. *Dipsacus laciniatus*, Teasel. B. Rare, 6.
 329. *Dipsacus sylvestris*, Teasel. B. Common.
 330. *Knautia arvensis*, Field scabious. P. Locally abundant, 2, 3.
 331. *Succisa australis*, Devils's-bit. P. Rare.

Cucurbitaceae (Gourd Family)

332. *Echinocystis lobata*, Wild cucumber. A. Frequent; native.
 333. *Sicyos angulatus*, One-seed bur cucumber. A. Frequent; native.

Campanulaceae (Bluebell Family)

334. *Campanula rapunculoides*, Bellflower. P. Frequent.
 335. *Specularia perfoliata*, Venus's-looking-glass. A. Infrequent; native.

Lobeliaceae (Lobelia Family)

336. *Lobelia inflata*, Indian tobacco. A. or W.A. Frequent; native.

Compositae (Composite Family)

337. *Achillea millefolium*, Yarrow. P. Common.
 338. *Ambrosia artemisiifolia*, Ragweed. A. Common, except 4; native.
 339. *Ambrosia psilostachya*, Perennial ragweed. P. Rare.
 340. *Ambrosia trifida*, Great ragweed. A. Common except 4; native.
 341. *Anaphalis margaritacea*, Pearly everlasting. P. Common; native.
 342. *Antennaria plantaginifolia*, Ladies' tobacco. P. Frequent; native.
 343. *Anthemis arvensis* var. *agrestis*, Corn chamomile. B. Common.
 344. *Anthemis cotula*, Dog fennel. A. or W.A. Frequent.
 345. *Arctium lappa*, Great burdock. B. Common.
 346. *Arctium minus*, Smaller burdock. B. Common.
 347. *Artemisia absinthium*, Wormwood. P. Infrequent, 5, 6.
 348. *Artemisia annua*, Annual wormwood. A. Infrequent, 1, 5, 6.
 349. *Artemisia biennis*, Biennial wormwood. A. or B. Infrequent, 1, 5, 6, 7.
 350. *Artemisia vulgaris*, Mugwort. P. Infrequent.
 351. *Aster simplex* var. *ramosissimus*, White field aster. P. Frequent; native.
 352. *Bidens bipinnata*, Spanish needle. A. Infrequent, 6, 7.
 353. *Bidens cernua*, Stick-tight. A. Common; native.
 354. *Bidens frondosa*, Beggar-tick. A. Common; native.
 355. *Bidens vulgata*, Tall beggar-tick. A. Common; native.
 356. *Carduus acanthoides*, Plumeless thistle. A. or B. Rare.
 357. *Carduus nutans*, Musk thistle. B. Rare.
 358. *Centaurea jacea*, Star thistle. P. Infrequent.
 359. *Centaurea maculosa*, Spotted knapweed. B. Locally abundant.
 360. *Centaurea melitensis*, Napa thistle. A. Rare, 6, 7.
 361. *Centaurea solstitialis*, Barnaby's thistle. A. Rare.
 362. *Chrysanthemum leucanthemum* var. *pinnatifidum*, Ox-eye daisy. P. Common.
 363. *Cichorium intybus*, Chicory. P. Frequent, especially 1, 5, 6.
 364. *Cirsium altissimum*, Tall thistle. B. Infrequent.
 365. *Cirsium arvense*, Canada thistle. P. Common.
 366. *Cirsium pumilum*, Pasture thistle. B. Infrequent, 1, 2, 3.
 367. *Cirsium vulgare*, Bull thistle. B. Common.
 368. *Crepis capillaris*, Hawk's-beard. A. or B. Infrequent.
 369. *Erechtites hieracifolia*, Fireweed. A. Frequent; native.
 370. *Erigeron annuus*, Whitetop. A. or B. Common; native.
 371. *Erigeron canadensis*, Fleabane. A. Common; native.
 372. *Erigeron philadelphicus*, Philadelphia fleabane. P. Frequent; native.
 373. *Erigeron pulchellus*, Robin's plantain. P. Frequent; native.
 374. *Erigeron strigosus*, Rough daisy fleabane. A. or B. Common; native.
 375. *Eupatorium maculatum*, Joe-pye weed. P. Common; native.
 376. *Eupatorium perfoliatum*, Boneset. P. Common; native.
 377. *Eupatorium rugosum*, White snakeroot. P. Frequent; native.
 378. *Galinsoga ciliata*, Galinsoga or Quick-weed. A. Frequent.

379. *Gnaphalium macounii*, Clammy everlasting. A. or B. Frequent; native.
380. *Gnaphalium obtusifolium*, Fragrant everlasting. A. or B. Frequent; native.
381. *Gnaphalium uliginosum*, Low cudweed. A. Frequent; native.
382. *Grindelia squarrosa*, Gumweed. B. or P. Rare.
383. *Helenium autumnale*, Sneezeweed. P. Common; native.
384. *Helenium nudiflorum*, Purple-headed sneezeweed. P. Rare, 1, 6, 7.
385. *Helenium tenuifolium*, Bitterweed. A. Rare, 6, 7.
386. *Helianthus annuus*, Sunflower. A. Infrequent.
387. *Helianthus tuberosus*, Jerusalem artichoke. P. Frequent.
388. *Hieracium aurantiacum*, Orange hawkweed. P. Common.
389. *Hieracium florentinum*, King-devil. P. Common, 4, 5, 6.
390. *Hieracium pilosella*, Mouse-ear hawkweed. P. Infrequent.
391. *Hieracium pratense*, Yellow paintbrush. P. Common.
392. *Hypochoeris radicata*, Gosmore. P. Infrequent.
393. *Inula helenium*, Elecampane. P. Frequent.
394. *Iva xanthifolia*, Marsh elder. A. Infrequent.
395. *Lactuca scariola*, Wild lettuce. A. or W.A. Common.
396. *Lapsana communis*, Nipplewort. A. Infrequent.
397. *Leontodon autumnalis*, Fall dandelion. P. Infrequent.
398. *Matricaria matricarioides*, Pineapple weed. A. Frequent, mostly 5, 6, 7.
399. *Picris hieracioides*, Ox-tongue. A. or B. Infrequent.
400. *Rudbeckia hirta*, Black-eyed Susan. B. Common.
401. *Senecio vulgaris*, Groundsel. A. or W.A. Frequent.
402. *Solidago graminifolia* var. *nuttallii*, Narrow-leaved goldenrod. P. Common; native.
403. *Sonchus arvensis*, Perennial sow-thistle. P. Locally abundant, mostly 1, 5.
404. *Sonchus asper*, Spiny-leaved sow-thistle. A. Frequent.
405. *Sonchus oleraceus*, Sow thistle. A. Common.
406. *Tanacetum vulgare*, Tansy. P. Frequent.
407. *Taraxacum erythrospermum*, Red-seeded dandelion. P. Infrequent.
408. *Taraxacum officinale*, Dandelion. P. Common.
409. *Tragopogon porrifolius*, Salsify. B. Common, mostly 1, 5.
410. *Tragopogon pratensis*, Yellow goatsbeard. B. Common, mostly 1, 5.
411. *Tussilago farfara*, Coltsfoot. P. Frequent.
412. *Xanthium orientale*, Cocklebur. A. Locally abundant; native—.
413. *Xanthium spinosum*, Spiny cocklebur. A. Infrequent, mostly 6, 7.

Appendix

Residents of New York State who are interested in the identification or control of particular weeds may obtain information by writing to the Department of Botany, New York State College of Agriculture, Ithaca, New York.

Several Extension bulletins and mimeographed leaflets have been prepared, and others are in preparation. Single copies are free to residents of the State.

Those who are interested in the general subject of weeds or in the identification or control of many kinds of weeds are referred to the books on this subject.

Mimeographed Leaflets (available from the Department of Botany)

1. Winter Cress (*Barbarea vulgaris*)
2. Field Peppergrass (*Lepidium campestre*)
3. Quack grass (*Agropyron repens*)
4. Bindweed or Wild morning glory
5. Burdocks (*Arctium*)
6. Wild Carrot (*Daucus carota*)
7. Chickweeds
8. Wild garlic and Wild onion
9. Nutgrass (*Cyperus esculentus*)
10. White cockle and Night-blooming Catchfly
11. Galinsoga or Quick-weed (*Galinsoga ciliata*)
12. Ground Ivy (*Nepeta hederaceae*)
13. Bedstraw and Cleavers (*Galium*)
14. Horse Nettle and Buffalo Bur
15. European Bittersweet (*Solanum dulcamara*)
16. Crabgrass (*Digitaria*)
17. Yarrow or Milfoil
18. Sulfur Cinquefoil (*Potentilla recta*)
19. Japanese Knotweed or Mexican Bamboo and Sacaline
20. Jerusalem artichoke
21. Goutweed (*Aegopodium*)
22. Field horsetail (*Equisetum arvense*)
23. Broom Sedge
24. Creeping Thyme
25. Dodders (*Cuscuta*)
26. Spotted Knapweed
27. Blue Thistle (*Echium*)
28. Cocklebur (*Xanthium*)
29. Hawkweeds (*Hieracium* spp.)
30. Plantain (*Plantago* spp.)
31. Indian Hemp (*Apocynum*)
32. Creeping Speedwell
33. Summer Cypress (*Kochia scoparia*)
34. Pokeweed (*Phytolacca americana*)
35. Velvet Leaf (*Abutilon theophrasti*)
36. Chess (*Bromus secalinus*)
37. Pigweeds (*Chenopodium* spp.)
38. Beggar ticks (*Bidens*)
39. Purslane (*Portulaca oleracea*)
40. Buttercups (*Ranunculus*)

41. *Hibiscus trionum* (Flower-of-an-hour)
42. *Lythrum salicaria* (Purple loosestrife)
43. *Asclepias* (Milkweeds)
44. Cypress spurge (*Euphorbia cyparissias*)
45. Perennial Sow thistle (*Sonchus arvensis*)

Bulletins

GAERTNER, ERIKA E.

Studies of seed germination, seed identification and lost relationship in *Dodders*, *Cuscuta* spp. Cornell University Agricultural Experiment Station. Memoir 294, 1950.

KELLEY, W. R.

Study of seed identification and seed germination of *Feronica* spp. and *Potentilla* spp. Cornell University Agricultural Experiment Station. Memoir 317, 1953.

HERRON, J. W.

Study of seed identification and germination of *Chenopodium* spp. Cornell University Agricultural Experiment Station. Memoir 320, 1953.

KROCHMAL, ARNOLD

Seeds of Weedy *Euphorbia* species and their identification. Weeds 1:243-256, 1952.

Acknowledgment

Cover photograph by Jesse F. Clovis

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